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Express Mail No. ER 953587772 US

JC06 Rec'd PCT/PTO 23 MAR 2005  
Docket No. 21404 US C038435/0185948

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE ACTING AS  
DESIGNATED/ELECTED OFFICE (DO/EO/US) UNDER THE PATENT  
COOPERATION TREATY CONCERNING A FILING UNDER 35 U.S.C. § 371

*In re* Application of: )  
Tatsuo HOSHINO et al. )  
Based on Int'l Application No.: PCT/EP2003/010295 ) Examiner: Not yet assigned  
International Filing Date: 16 September 2003 ) Art Unit: Not yet assigned  
Filed: Herewith )  
For: **PROCESS FOR ACTINOL PRODUCTION** )  
**FROM KETOISOPHORONE** )

New York, New York  
March 23, 2005

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants wish to make of record the following documents (clean copies and a Form PTO-1449 listing the documents are enclosed). The following documents were cited in the International Search Report, mailed March 24, 2004 in the International application corresponding to the above-captioned case.

**U.S. PATENT DOCUMENTS**

<u>Document No.</u>	<u>Date</u>
A1 4,072,715	2/7/1978

## FOREIGN PATENT DOCUMENTS

	<u>Document No.</u>	<u>Date</u>	<u>Country</u>
B1	1 122 315	8/8/2001	Europe
B2	1 074 630	2/7/2001	Europe
B3	1 026 235	8/9/2000	Europe
B4	0 982 406	3/1/2000	Europe

## OTHER DOCUMENTS

- C1 Wada M. et al., "Purification and Characterization of Monovalent Cation-Activated Levodione Reductase from *Corynebacterium Aquaticum M-13*," Applied and Environmental Microbiology, vol. 65, no. 10, pp. 4399-4403 (1999).
- C2 Wanner and Tressl, "Purification and Characterization of Two Enone Reductases from *Saccharomyces Cerevisiae*," Eur. J. Biochem., vol. 255, pp. 271-278 (1998).
- C3 Yoshisumi, A. et al., "Cloning, Sequence Analysis, And Expression in *Escherichia Coli* of the Gene Encoding Monovalent Cation-Activated Levodione Reductase from *Corynebacterium Aquaticum M-13*," Biosci. Biotechnol. Biochem., vol. 65, no. 4, pp. 830-836 (2001).
- C4 Stott, K. et al., "Old Yellow Enzyme: The Discovery of Multiple Isozymes and a Family of Related Proteins," Journal of Biological Chemistry, vol. 268, no. 9, pp. 6097-6106 (1993).
- C5 Niino, Y.S. et al., "A New Old Yellow Enzyme of *Saccharomyces Cerevisiae*," Journal of Biological Chemistry, vol. 270, no. 5, pp. 1983-1991 (1995).
- C6 Vaz, A.D.N. et al., "Old Yellow Enzyme: Aromatization of Cyclic Enones and the Mechanism of a Novel Dismutation Reaction," Biochemistry, vol. 34, pp. 4246-4256 (1995).
- C7 Wada, M. et al., "Production of a Doubly Chiral Compound, (4R,6R)-4-Hydroxy-2,2,6-Trimethylcyclohexanone, by Two-Step Enzymatic Asymmetric Reduction," Applied and Environmental Microbiology, vol. 69, no. 2, pp. 933-937 (2003).
- C8 Kataoka, M. et al., "Old Yellow Enzyme from *Candida Macedoniensis* Catalyzes the Stereospecific Reduction of the C=C Bond of Ketoisophorone," Biosci. Biotechnol. Biochem., vol. 66, no. 12, pp. 2651-2657 (2002).

The Examiner's independent consideration of all of these documents and their relevance before issuance of the first official action is respectfully requested. The Examiner is also requested to initial and return a copy of the accompanying form PTO-1449 to evidence such consideration.

Copies of the International Search Report and International Preliminary Examination Report are included herewith. All documents cited in these reports are identified herein and copies of all documents, other than the U.S. patent document, are provided. See MPEP § 609(III)(A)(2)(A) (8<sup>th</sup> Ed., Rev. 2, May 2004, p. 600-128); See also 1276 OG 55 (August 5, 2003) (Waiving the requirement under Rule 98(a)(2)(1) to provide a copy of each cited U.S. patent document for any application filed after June 30, 2003.).

This Information Disclosure Statement is being filed in accordance with the provisions under 37 C.F.R. §1.97(b)(2), within three months of the date of entry of the national stage of the national application. Accordingly, no fee is believed to be due. If, however, a fee is due, please charge the same to Deposit Account No. 02-4467. A duplicate copy of this sheet is enclosed.

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If the Examiner has any questions regarding this paper, please contact  
the undersigned attorney.

Respectfully submitted,

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Form PTO-1449 (Rev. )	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 21404 US C038435/0185948	INTERNATIONAL APPLICATION NO.: PCT/EP2003/010295
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)		APPLICANT Tatsuo HOSHINO <i>et al.</i>	
		INTERNATIONAL FILING DATE 16 September 2003	GROUP Not Yet Assigned

**U.S. PATENT DOCUMENTS**

Examiner Initial	Cite No.	U.S. Patent Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	A1	4,072,715	2/7/1978	Boguth <i>et al.</i>			

**FOREIGN PATENT DOCUMENTS**

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**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER

DATE CONSIDERED

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.